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Universidade do Minho - 3 B's - Research Group - Biomaterials, Biodegradables and Biomimetics
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English

1. Descrição do cargo/posição/bolsa 1. Job description

Job:

MSc RESEARCHERS IN BIOMEDICAL ENGINEERING AND CELL BIOLOGY

Job/Fellowship Reference: BIM-CapBed-November_2019(2)

Main research field: Not available

Sub research field:

Job summary:

MSc RESEARCHERS IN BIOMEDICAL ENGINEERING AND CELL BIOLOGY

Under the scope of the ERC Starting Grant – CapBed

3B's Research Group

Biomaterials, Biodegradables and Biomimetics

University of Minho, Portugal

Fellowship Reference:

BIM-CapBed-November_2019(2)

Job description:

In the scope of the ERC Starting Grant "CapBed - Engineered Capillary Beds for Successful Prevascularization of Tissue Engineering Constructs", the 3B's Research Group (www.3bs.uminho.pt) from the University of Minho, Portugal, is opening **2 research positions for MSc holders** in the fields of **Biomedical Engineering** and **Cell Biology**.

The positions are aimed at young, committed and passionate researchers willing to develop multidisciplinary research with the objective of fabricating bioartificial capillary beds in the scope of a prestigious ERC project awarded to Dr Rogério Pirraco

(<http://3bs.uminho.pt/users/rpirraco>).

The proposed challenge is expected to contribute for surpassing the major obstacle of vascularization of tissue engineered constructs.

The positions are an excellent opportunity for a highly ambitious, motivated and innovative scientist to expand their skill-set, with additional training in state-of-the art methods for the development of scaffold-free tissue engineered strategies.

Research at the 3B's Research Group

The 3B's Research Group is a Research Unit of the University of Minho. The core activity of the group is at the interface between materials engineering, life sciences and biotechnology covering a series of multidisciplinary aspects with the goal of developing new advanced therapies for the regeneration of human tissues.

3B's Research Group leads the European Institute of Excellence on Tissue Engineering and Regenerative Medicine, with headquarters in a state of the art building in Avepark, Guimarães. The research infrastructure was specifically designed to execute state of the art tissue engineering-related research, which is performed in a highly dynamic, interdisciplinary and international environment.

Position Description

Profile 1 – Biomedical Engineering

Candidates are expected to apply cutting edge manufacturing tools such to produce micropatterned hydrogels as well as bioreactors. Duties will include design and execution of experiments, data processing, presentation and preparation for publication.

The applicants should hold an MSc degree in Biomedical Engineering or related area with relevant experience in additive and/or subtractive manufacturing techniques.

Profile 2 – Cell Biology

Candidates are expected to apply human cell culture techniques to produce cell sheet-based 3D constructs. Experience in extracellular matrix extraction and characterization will be an asset. Duties will include design and execution of experiments, data processing, presentation and preparation for publication.

The applicants should hold an MSc degree in Cell Biology or related area with a strong background in mammalian cell culture and characterization using imaging and biochemical tools.

General attributes: Autonomy, ambition, strong team spirit and commitment to research excellence, and willingness to participate in the activities of the group are expected. The applicants should have strong written and oral communication skills. Good proficiency in the English language is required.

Fellowship Notes

Fellowship Term and Legal Status: The fellowships expected to start at January 2020 and will last 1 year each. The fellowship contract may be renewed, upon positive evaluation, with a possibility for an extension until the end of the project, 31st of October 2023. It is a full time research fellowship and all the conditions established by the Portuguese Foundation for Science and Technology will be applied (more information <http://www.fct.pt>).

Fellowships Value: The fellowships value will be based on the Portuguese Foundation for Science and Technology rules for fellowships, ie, a monthly stipend of 989,70 € (euros) for research fellowship – MSc level (tax free) (more information <http://www.fct.pt>).

Application Procedures

Documents: Motivation letter (maximum one A4 page), copy of the Certificate of academic degree(s), detailed Curriculum Vitae and one reference letter.

Period of application: The Applications should be submitted using the Fellowship Reference: BIM-CapBed-November_2019(2) and identifying the profile, from the 22nd of November to the 13th of December of 2019, by e-mail to info@i3bs.uminho.pt or regular mail to:

A/c Dr Rogério P. Pirraco

3B's Research Group - Biomaterials, Biodegradables and Biomimetics

University of Minho

Headquarters of the European Institute of Excellence on Tissue Engineering and Regenerative Medicine

AvePark - Zona Industrial da Gandra

4805-017 Barco GMR

Guimarães, Portugal

Selection methods: Curriculum Evaluation and Interview. The evaluation criteria for each method is as following:

A. Curriculum Evaluation (50%)

A.1. Academic qualifications

A.2. Research Experience under the project scope

B. Interview (50%)

B.1. Professional and social skills.

The candidates will be classified in a scale of 1 to 20 for each criterion, and candidates classified with a score below 15 in the Curriculum Evaluation will not be admitted for the interview. In the stage of interview, candidates scoring below 15 will be also excluded.

Jury Panel: Dr. Rogério P. Pirraco (President), Prof. Rui L. Reis and Dr. Alexandra P. Marques.

Vacant posts: 2

Type of contract: Other

Job country: Portugal

Job city: Caldas das Taipas

Job company/institute: Universidade do Minho - 3B's Research Group

Application deadline: 13 Dezembro 2019

(The Application's deadline must be confirmed on the Job Description)

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2. Dados de contactos da organização 2. Organization contact data

Organization/institute: Universidade do Minho - 3 B's - Research Group - Biomaterials, Biodegradables and Biomimetics

Address:

Avepark - Zona Industrial da Gandra
Guimarães - 4805-017
Portugal

Email: info@i3bs.uminho.pt

Website: <http://www.3bs.uminho.pt/>

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3. Habilitações académicas 3. Required education Level

Degree:

The applicants should hold an MSc degree in Biomedical Engineering or related area with relevant experience in additive and/or subtractive manufacturing techniques. The applicants should hold an MSc degree in Cell Biology or related area with a strong background in mammalian cell culture and characterization using imaging and biochemical tools.

Degree field:

Not available

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4. Línguas exigidas 4. Required languages

Language:	English
Priority:	High
Reading:	Excelent
Writing:	Excelent
Comprehension:	Excelent
Conversation:	Excelent

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5. Experiência exigida em investigação 5. Required research experience

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